



Advisory Circular

U.S. Department
of Transportation
**Federal Aviation
Administration**

Subject: INDEX OF AVIATION TECHNICAL
STANDARD ORDERS

Date: 5/30/97
Initiated by: AIR-120

AC No: 20-110J
Change:

1. **PURPOSE.** This advisory circular (AC) describes the public procedures the Federal Aviation Administration (FAA) will use to develop and issue Technical Standard Orders (TSO's) for aeronautical articles to be used on civil aircraft. The AC presents an index of the FAA TSO's which contain minimum performance standards for specified materials, parts, processes, and appliances used on civil aircraft.
 2. **CANCELLATION.** Advisory Circular 20-110H, Index of Aviation Technical Standard Orders, dated May 6, 1993, is canceled.
 3. **RELATED FAR SECTIONS.** Federal Aviation Regulations (FAR), Part 21, Subpart O.
 4. **BACKGROUND.** On June 2, 1980, by Amendment 21-50 to FAR Part 21, the FAA adopted a new public procedure for issuing TSO's for specified materials, parts, processes, and appliances used on civil aircraft, relocated the substance of Subpart A of FAR Part 37 to Subpart O of FAR Part 21, and revoked the remainder of FAR Part 37. Amendment 21-50 became effective on September 9, 1980.
 5. **PUBLIC PROCEDURE.** The following is the public procedure the FAA will use to develop and issue final TSO's for specific articles used on civil aircraft.
 - a. The FAA will continue to develop proposed TSO's and will use, by reference in the TSO, documents prepared and issued by organizations such as the RTCA, Inc. (RTCA) and the Society of Automotive Engineers (SAE). Notices of RTCA meetings and invitations will continue to be published in the Federal Register to allow public participation at the early stages of document development.
 - b. Copies of documents prepared and issued by an organization that are incorporated by reference in proposed or final TSO's will be made available to interested persons in accordance with FAA regulations.
 - c. Any person may request the Administrator to revise or issue a new TSO by submitting a description of the revision sought or a description of the new article for which a TSO is requested.
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d. The FAA will use several methods to ensure that the public is afforded early opportunities to take part in the TSO decisionmaking process. Proposed TSO's are normally distributed to the public for comment through the use of mailing lists. Any individual or organization can request to be placed on the TSO mailing lists. A notice of availability for comment of each proposed TSO is published in the Federal Register, and a copy of each final TSO is mailed to all persons on the mailing list.

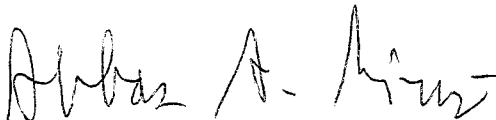
e. Any person wishing to submit comments on a proposed TSO may do so. All comments received on or before the closing date for comments will be considered by the Administrator before issuing a final TSO. Late comments may also be considered as long as no additional expense or delay in processing the TSO is incurred.

f. All comments submitted will be available, both before and after the closing date for comments, for examination by interested persons. Comments are located at the FAA Headquarters in the Aircraft Certification Service, Aircraft Engineering Division (AIR-100), Room 815, 800 Independence Avenue, SW., Washington, D.C. 20591, between 8:30 a.m. and 4:30 p.m., Monday thru Friday.

g. Copies of proposed TSO's, FAA Resolution of Comments, and final TSO's will also be available at the FAA Headquarters in the Aircraft Certification Service, Aircraft Engineering Division (AIR-100), and at all FAA Regional Aircraft Certification Offices (ACO's). Final TSO's will not be published in the Federal Register.

6. INDEX OF TSO's. For the reader's convenience, the index of TSO's is presented both numerical sequence (appendix 1) and by subject matter (appendix 2). All TSO standards contained in FAR Part 37, Subpart B, as of September 9, 1980, are current under the TSO revision program, unless appendix 1 of this AC shows a later revision date.

7. HOW TO OBTAIN TSO's. To obtain a copy of any of the TSO's listed in appendices 1 or 2, write to the: U.S. Department of Transportation, Subsequent Distribution Office, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785. To have your name placed on our mailing list to receive future issuances of TSO's, notices for public comment on proposed TSO's or copies of proposed TSO's, write to the: Federal Aviation Administration, Aircraft Engineering Division (AIR-100), 800 Independence Avenue, SW., Washington, D.C. 20591.



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APPENDIX 1. INDEX OF TSO's IN NUMERICAL SEQUENCE

<u>TSO Number</u>	<u>Subject Title</u>
TSO-C1c - 7/10/87	Cargo and Baggage Compartment Smoke Detection Instruments
TSO-C2d - 6/14/89	Airspeed Instruments
TSO-C3d - 6/14/89	Turn and Slip Instrument
TSO-C4c	Bank and Pitch Instruments (Indicating Gyro-Stabilized Type) (Gyroscopic Horizon, Attitude Gyro)
TSO-C5e - 6/14/89	Direction Instrument, Non-magnetic (Gyro-Stabilized Type)
TSO-C6d - 6/14/89	Direction Instrument, Magnetic (Gyro-Stabilized Type)
TSO-C7d - 6/14/89	Direction Instrument, Magnetic Non-Stabilized Type (Magnetic Compass)
TSO-C8d - 8/8/91	Vertical Velocity Instrument (Rate-of-Climb)
TSO-C9c	Automatic Pilots
TSO-C10b	Aircraft Altimeter, Pressure Actuated Sensitive Type
TSO-C11e - 10/17/91	Fire Detectors (Thermal Sensing and Flame Contact)
TSO-C13f - 9/24/92	Life Preservers
TSO-C14b - 2/15/90	Aircraft Fabric, Intermediate Grade, External Covering Material
TSO-C15d - 2/26/90	Aircraft Fabric, Grade A, External Covering Material
TSO-C16	Air-Speed Tubes (Electrically Heated)
TSO-C19b	Portable Water-Solution Type Fire Extinguishers
TSO-C20	Combustion Heaters
TSO-C21b - 3/16/89	Special Aircraft Turnbuckle Assemblies and/or Turnbuckle Safetying Devices
TSO-C22g - 3/5/93	Safety Belts
TSO-C23d - 6/1/94	Personnel Parachutes Assemblies

APPENDIX 1. INDEX OF TSO's IN NUMERICAL SEQUENCE (Continued)

<u>TSO Number</u>	<u>Subject Title</u>
TSO-C25a	Aircraft Seats and Berths (Type I Transport, 6g Forward Load)
TSO-C26c - 5/18/84	Aircraft Wheels and Wheel-Brakes Assemblies, with Addendum I
TSO-C27	Twin Seaplane Floats
TSO-C28	Aircraft Skis
TSO-C30c - 5/12/89	Aircraft Position Lights
TSO-C31d - 4/30/84	High Frequency (HF) Radio Communication Transmitting Equipment Operating Within Radio Frequency Range of 1.5 to 30 Megahertz
TSO-C32d - 4/30/84	High Frequency (HF) Radio Communication Receiving Equipment Operating Within the Radio Frequency Range of 1.5 of 30 Megahertz
TSO-C34e - 1/15/88	ILS Glide Slope Receiving Equipment Operating Within 328.6 to 335.4 Megahertz
TSO-C35d	Airborne Radio Marker Receiving Equipment
TSO-C36e - 1/25/88	ILS Localizer Receiving Equipment
TSO-C37d - 9/23/92	VHF Radio Communications Transmitting Equipment Operating Within 117.975 to 137.000 Megahertz
TSO-C38d - 9/23/92	VHF Radio Communications Receiving Equipment Operating Within 117.975 to 137.000 Megahertz
TSO-C39b -4/1/87	Aircraft Seats and Berths
TSO-C40c - 1/25/88	VOR Radio Receiving Equipment Operating Within the Radio Frequency Range of 108-118 Megahertz
TSO-C41d - 5/6/85	Airborne Automatic Direction Finding (ADF) Equipment
TSO-C42	Propeller Feathering Hose Assemblies (Rubber and Wire Braid Construction)

APPENDIX 1. INDEX OF TSO's IN NUMERICAL SEQUENCE (Continued)

<u>TSO Number</u>	<u>Subject Title</u>
TSO-C43b - 8/8/91	Temperature Instruments
TSO-C44b - 5/10/95	Fuel Flowmeters
TSO-C45a - 2/28/95	Manifold Pressure Indicating Instruments
TSO-C46a	Maximum Allowable Airspeed Indicator Systems
TSO-C47	Pressure Instruments - Fuel, Oil, and Hydraulic
TSO-C48	Carbon Monoxide Detector Instruments
TSO-C49b - 5/30/95	Electric Tachometer: Magnetic Drag (For Air Carrier Aircraft)
TSO-C50c - 1/31/83	Audio Selector Panels and Amplifiers
TSO-C52b - 5/30/95	Flight Directors
TSO-C53a	Fuel and Engine Oil System Hose Assemblies (Rubber or Tetrafluorethylene Tube and Wire Braid Construction)
TSO-C54	Stall Warning Instruments
TSO-C55	Fuel and Oil Quantity Instruments (For Reciprocating Engine Aircraft)
TSO-C56a - 4/12/84	Engine-Driven Direct Current Generators/Starter Generators
TSO-C57a - 1/31/83	Aircraft Headsets and Speakers
TSO-C58a - 1/31/83	Aircraft Microphones (For Air Carrier Aircraft)
TSO-C59	Airborne Selective Calling Equipment (For Aircraft)
TSO-C60b - 5/11/88	Airborne Area Navigation Equipment Using Loran C Inputs

APPENDIX 1. INDEX OF TSO's IN NUMERICAL SEQUENCE (Continued)

<u>TSO Number</u>	<u>Subject Title</u>
TSO-C62d - 9/7/90	Aircraft Tires
TSO-C63c - 8/18/83	Airborne Weather and Ground Mapping Pulsed Radars
TSO-C64a - 8/25/89	Oxygens Mask Assembly Continuous Flow, Passenger (For Air Carrier Aircraft)
TSO-C65a - 8/18/83	Airborne Doppler Radar Ground Speed and/or Drift Angle Measuring Equipment (For Air Carrier Aircraft)
TSO-C66c - 1/18/91	Distance Measuring Equipment (DME) Operating within the Radio Frequency Range of 960-1215 Megahertz
TSO-C67	Airborne Radar Altimeter Equipment (For Air Carrier Aircraft)
TSO-C68a - 8/18/83	Airborne Automatic Dead Reckoning Computer Equipment Utilizing Aircraft Heading and Doppler Ground Speed and Drift Angle Data (For Air Carrier Aircraft)
TSO-C69b - 8/17/88	Emergency Evacuation Slides, Ramps, and Slide/Raft Combinations
TSO-C70a - 4/13/84	Liferafts (Reversible and Nonreversible)
TSO-C71	Airborne Static ("DC to DC") Electrical Power Converter (For Air Carrier Aircraft)
TSO-C72c - 2/19/87	Individual Flotation Devices
TSO-C73	Static Electrical Power Invertor
TSO-C74c	Airborne ATC Transponder Equipment
TSO-C75	Hydraulic Hose Assemblies
TSO-C76	Fuel Drain Valves
TSO-C77a - 7/20/81	Gas Turbine Auxiliary Power Units

APPENDIX 1. INDEX OF TSO's IN NUMERICAL SEQUENCE (Continued)

<u>TSO Number</u>	<u>Subject Title</u>
TSO-C78	Crewmember Demand Oxygen Masks
TSO-C79	Fire Detector (Radiation Sensing Type)
TSO-C80	Flexible Fuel and Oil Cell Material
TSO-C85a - 3/7/96	Survivor Locator Lights
TSO-C87	Airborne Low-Range Radio Altimeter
TSO-C88a - 8/18/83	Automatic Pressure Altitude Reporting Code Generating Equipment
TSO-C89	Oxygen Regulators, Demand
TSO-C90c - 4/3/92	Cargo Pallets, Nets, and Containers
TSO-C91a - 4/29/85	Emergency Locator Transmitters (ELT) Equipment
TSO-C92c - 3/19/96	Ground Proximity Warning-Glide Slope Deviation Alerting Equipment
TSO-C93	Airborne Interim Standard Microwave Landing System Converter Equipment
TSO-C94a - 8/12/81	Omega Receiving Equipment Operating Within the Radio Frequency Range of 10.2 to 13.6 Kilohertz
TSO-C95 - 8/18/83	Mach Meters
TSO-C96a - 4/7/89	Anticollision Lights System
TSO-C97	Lithium Sulfur Dioxide Batteries
TSO-C99 - 6/27/83	Protective Breathing Equipment
TSO-C101 - 2/19/87	Over Speed Warning Instruments
TSO-C102 - 4/2/84	Airborne Radar Approach and Beacon Systems for Helicopters

APPENDIX 1. INDEX OF TSO's IN NUMERICAL SEQUENCE (Continued)

<u>TSO Number</u>	<u>Subject Title</u>
TSO-C103 - 4/12/84	Continuous Flow Oxygen Mask Assembly (For Non-Transport Category Aircraft)
TSO-C104 - 6/22/82	Microwave Landing Systems (MLS) Airborne Receiving Equipment
TSO-C105 - 6/13/84	Optional Display Equipment for Weather and Ground Mapping Radar Indicators
TSO-C106 - 1/15/88	Air Data Computer
TSO-C109 - 12/9/85	Airborne Navigation Data Storage System
TSO-C110a - 10/26/88	Airborne Passive Thunderstorm Detection Systems
TSO-C112 - 2/5/86	Air Traffic Control Radar Beacon System/Mode Select (ATCRBS/Mode S) Airborne Equipment
TSO-C113 - 10/27/86	Airborne Multipurpose Electronic Display
TSO-C114 - 3/27/87	Torso Restraint Systems
TSO-C115b - 9/30/94	Airborne Area Navigation Equipment Using Multi-Sensor Inputs
TSO-C116 - 3/1/90	Crewmember Protective Breathing Equipment
TSO-C117a - 8/1/96	Airborne Windshear Warning and Escape Guidance Systems for Transport Airplanes
TSO-C118 - 8/5/88	Traffic Alert and Collision Avoidance System (TCAS) Airborne Equipment, TCAS I
TSO-C119a - 4/9/90	Traffic Alert and Collision Avoidance System (TCAS) Airborne Equipment, TCAS II
TSO-C120 - 1/26/88	Airborne Area Navigation Equipment Using Omega/VLF Inputs

APPENDIX 1. INDEX OF TSO's IN NUMERICAL SEQUENCE (Continued)

<u>TSO Number</u>	<u>Subject Title</u>
TSO-C121 - 3/1/90	Underwater Locating Devices (Acoustic) (Self-Powered)
TSO-C122 - 4/11/94	Devices that Prevent Blocked Channels Used in Two-Way Radio Communications due to Simultaneous Transmissions
TSO-C123a - 8/2/96	Cockpit Voice Recorder Systems
TSO-C124b - 8/1/96	Flight Data Recorder Systems
TSO-C126 - 12/23/92	406 MHz Emergency Locator Transmitter (ELT)
TSO-C127 - 3/30/92	Rotorcraft and Transport Airplane Seating Systems
TSO-C128 - 7/20/93	Devices that Prevent Blocked Channels Used in Two-Way Radio Communications due to Unintentional Transmissions
TSO-C129a - 2/20/96	Airborne Supplemental Navigation Equipment Using the Global Positioning System (GPS)

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<u>Subject Title</u>	<u>TSO Number</u>
<u>Air Conditioning</u>	
Combustion	TSO-C20
<u>Auto Flight</u>	
Automatic Pilots	TSO-C9c
<u>Airborne Auxiliary Power</u>	
Gas Turbine Auxiliary Power Units	TSO-C77a
<u>Communications Equipment</u>	
<u>Amplifiers</u>	
Audio Selector Panels and Amplifiers	TSO-C50c
<u>Microphones</u>	
Aircraft Headsets and Speakers	TSO-C57a
Aircraft Microphones (For Air Carrier Aircraft)	TSO-C58a
<u>Selective Calling Equipment</u>	
Airborne Selective Calling Equipment (For Air Carrier Aircraft)	TSO-C59
<u>VHF</u>	
VHF Radio Communications Transmitting Equipment Operating Within 117.975 to 137.000 Megahertz	TSO-C37d
VHF Radio Communications Receiving Equipment Operating Within 117.975 to 137.000 Megahertz	TSO-C38d

APPENDIX 2. INDEX OF TSO's GROUPED BY SUBJECT MATTER (Continued)

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High Frequency (HF) Radio Communication Transmitting
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Range of 1.5 and 30 Meghertz TSO-C31d

High Frequency (HF) Radio Communication Receiving
Equipment Operating Within the Radio Frequency Range
1.5 to 30 Megahertz TSO-C32d

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Cockpit Voice Recorder Systems TSO-C123a

Underwater Locating Devices (Acoustic) (Self-Powered) TSO-C121

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Airborne Static ("DC to DC") Electrical Power Converter
(For Air Carrier Aircraft) TSO-C71

Engine-Driven Direct Current Generators/Starter-Generators TSO-C56a

Lithium Sulfur Dioxide Batteries TSO-C97

Static Electrical Power Inverter TSO-C73

Equipment Furnishings

Aircraft Fabrics

Aircraft Fabric Intermediate Grade, External
Covering Material TSO-C14b

Aircraft Fabric, Grade A, External Covering Material TSO-C15d

Turnbuckles

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Turnbuckle Safetying Devices TSO-C21b

APPENDIX 2. INDEX OF TSO's GROUPED BY SUBJECT MATTER (Continued)

<u>Subject Title</u>	<u>TSO Number</u>
<u>Equipment Furnishing (Continued)</u>	
<u>Seats, Berths, and Safety Belts</u>	
Aircraft Seats and Berths (Type I Transport, 6g Forward Load)	TSO-C25a
Aircraft Seats and Berths	TSO-C39b
Safety Belts	TSO-C22g
Torso Restraint Systems	TSO-C114
<u>Fire Protection Equipment</u>	
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Carbon Monoxide Detector Instruments	TSO-C48
Fire Detectors (Thermal Sensing and Ionization Sensing Types)	TSO-C11e
Fire Detector (Radiation Sensing Type)	TSO-C79
Portable Water-Solution Type Fire Extinguishers	TSO-C19b
<u>Fuel/Oil/Hydraulic Equipment</u>	
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Flexible Fuel and Oil Cell Material	TSO-C80
Fuel and Engine Oil System Hose Assemblies (Rubber or Tetrafluorethylene Tube and Wire Braid Construction)	TSO-C53a
Fuel Drain Valves	TSO-C76
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APPENDIX 2. INDEX OF TSO's GROUPED BY SUBJECT MATTER (Continued)

<u>Subject Title</u>	<u>TSO Number</u>
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<u>Air-Speed Tubes</u>	
Air-Speed Tubes (Electrically Heated)	TSO-C16
<u>Weather and Radar Equipment</u>	
Airborne Passive Thunderstorm Detection Systems	TSO-C110a
Airborne Radar Approach and Beacon Systems for Helicopters	TSO-C102
Airborne Weather and Ground Mapping Pulsed Radars	TSO-C63c
<u>Instruments</u>	
<u>Flight Instruments</u>	
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Airborne Low-Range Radio Altimeter	TSO-C87
Airborne Radar Altimeter Equipment (For Air Carrier Aircraft)	TSO-C67
Aircraft Altimeter, Pressure Actuated Sensitive Type	TSO-C10b
Airspeed Instruments	TSO-C2d
Automatic Pressure Altitude Reporting Code Code Generating Equipment	TSO-C88a
Bank and Pitch Instruments (Indicating Gyro-Stablized Type) (Gyroscopic Horizon, Attitude Gyro)	TSO-C4c
Cockpit Voice Recorder System	TSO-C123a
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APPENDIX 2. INDEX OF TSO's GROUPED BY SUBJECT MATTER (Continued)

<u>Subject Title</u>	<u>TSO Number</u>
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APPENDIX 2. INDEX OF TSO's GROUPED BY SUBJECT MATTER (Continued)

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Aircraft Position Lights	TSO-C30c
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Airborne Automatic Dead Reckoning Computer Equipment Utilizing Aircraft Heading and Doppler Ground Speed and Drift Angle Data (For Air Carrier Aircraft)	TSO-C68a
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Air Traffic Control Radar Beacon System/Mode Select (ATCRBS/Mode S) Airborne Equipment	TSO-C112
Airborne Doppler Radar Ground Speed and/or Drift Angle Measuring Equipment (For Air Carrier Aircraft)	TSO-C65a
Airborne ILS Glide Slope Receiving Equipment Operating Within 328.6 to 335.4 Megahertz	TSO-C34e
Airborne ILS Localizer Receiving Equipment	TSO-C36e
Airborne Interim Standard Microwave Landing System Converter Equipment	TSO-C93
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APPENDIX 2. INDEX OF TSO's GROUPED BY SUBJECT MATTER (Continued)

<u>Subject Title</u>	<u>TSO Number</u>
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Airborne Area Navigation Equipment Using Multi-Sensor Inputs	TSO-C115b
Airborne Area Navigation Equipment Using Omega/VLF Inputs	TSO-C120
Airborne Area Navigation Equipment Loran-C Inputs	TSO-C60b
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Airborne Radio Marker Receiving Equipment	TSO-C35d
Airborne Automatic Direction Finding (ADF) Equipment	TSO-C41d
Airborne Navigation Data Storage System	TSO-C109
Airborne Supplemental Navigation Equipment Using the Global Positioning System (GPS)	TSO-C129a
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Traffic Alert and Collision Avoidance System (TCAS) Airborne Equipment, TCAS I	TSO-C118
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VOR Radio Receiving Equipment Operating Within the Radio Frequency Range of 108-118 Megahertz	TSO-C40c

APPENDIX 2. INDEX OF TSO's GROUPED BY SUBJECT MATTER (Continued)

<u>Subject Matter</u>	<u>TSO Number</u>
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Crewmember Demand Oxygen Masks	TSO-C78
Crewmember Protective Breathing Equipment	TSO-C116
Oxygen Mask Assembly Continuous Flow, Passenger (For Air Carrier Aircraft)	TSO-C64a
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<u>Propeller (Hose Assemblies)</u>	
Propeller Feathering Hose Assemblies (Rubber and Wire Braid Construction)	TSO-C42
<u>Structure (Containers, Pallets, Nets)</u>	
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<u>Ground Proximity Warning</u>	
Ground Proximity Warning-Glide Slope Deviation Alerting Equipment	TSO-C92c
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Emergency Locator Transmitter (ELT) Equipment	TSO-C91a

APPENDIX 2. INDEX OF TSO's GROUPED BY SUBJECT MATTER (Continued)

<u>Subject Title</u>	<u>TSO Number</u>
<u>Rafts/Slides/Life Preservers/Parachutes</u>	
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Individual Floation Devices	TSO-C72c
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Liferafts (Reversible and Nonreversible)	TSO-C70a
Parachutes	TSO-C23d

